Millipore Environment, Health & Safety

2005

MSDS
(Material Safety Data Sheet)

Hydraulic Oil



1/6

MILLIPORE
Environment, Health & Safety

**Hydraulic Oil**

**MATERIAL SAFETY DATA SHEET**

## SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

| | |
|---|---|
| **Millipore Corporation** | |
| 290 Concord Road | |
| Billerica MA 01821 | |
| Information | 781-533-2988 |
| CHEMTREC Emergency Telephone Numbers: | |
| United States | 800-424-9300 |
| International | 703-527-3887 (collect) |
| | |
| **PRODUCT:** | **Hydraulic oil used for Pellicon Holders** |
| | |
| Product/Part Numbers: | **P70337** |
| MSDS Number: | **M114,845** |
| Issue Date: | July 1, 2005 |
| Rev. Date: | -- |
| Revision: | -- |
| | |
| **SUBSTANCE IDENTIFICATION:** Hydraulic oil used for Pellicon Filter Holder | |

## SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

| Component | CAS # | EINICS # | Percentage |
|---|---|---|---|
| Polyethylene Glycol | 68130-99-4 | Not available | <90 |
| Polyol | Not available | Not available | <20 |
| Additives | Not available | Not available | <1 |

## SECTION 3 - HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW** : Causes eye irritation. Vapor, aerosol or mist of this product generated at high temperatures can be irritating if inhaled.

**POTENTIAL HEALTH EFFECTS**

| | |
|---|---|
| **Acute Effects** | |
| Inhalation | At ambient temperatures, not expected |
| Eye Contact | Excess redness and swelling of the conjunctiva |
| Skin Contact | No evidence of harmful dermal effects from available information |
| Ingestion | No evidence of harmful effects from available information |
| **Chronic Effects** | |
| Repeated Exposures | When administered to rats by stomach tube, a component in this mixture produced tumors of the forestomach. On the basis of this information, an IARC working group concluded that there is "limited evidence" for carcinogenicity of the component in laboratory animals. No case reports or epidemiological study of carcinogenicity to humans was available to the working group, thus no evaluation could be made of the carcinogenicity to humans. |
| Conditions aggravated by Exposure | A knowledge of available toxicological information and of the physical properties of this materials suggest that overexposure is unlikely to aggravate existing medical conditions. |

## SECTION 4 - FIRST AID

| | |
|---|---|
| Inhalation | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. |
| Skin Contact | Wash contact areas with soap and water. |
| Ingestion: | First aid is normally not required. Seek medical attention if discomfort occurs. |
| Eyes: | Flush thoroughly with water. If irritation occurs, get medical assistance. |

## SECTION 5 - FIRE FIGHTING MEASURES

| | |
|---|---|
| Extinguishing Media | Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. |
| Fire Fighting Instructions | Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. |
| Hazardous Combustion Products | Incomplete combustion products, Oxides of carbon, Smoke, Fume, Aldehydes, Sulfur oxides. |

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent. Dispose of in a manner consistent with Federal, State, and Local Regulations.

## SECTION 7- HANDLING AND STORAGE

Do not store in open or unlabelled containers. Prevent small spills and leakage to avoid slip hazard. Keep container closed. Wash thoroughly after handling

## SECTION 8 - PERSONAL PROTECTION AND EXPOSURE CONTROL

| | |
|---|---|
| Engineering Controls: | No special requirements under ordinary conditions of use and with adequate ventilation. |
| Hand Protection: | Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use. |
| Eye Protection | If contact is likely, safety glasses with side shields are recommended. |
| Skin and Body Protection | Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact. |
| Respirator Use: | If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical State | Pale, yellow liquid |
| Specific Gravity | 1.147 |
| Odor | Mild characteristic |
| Odor threshold | ND |
| Flash Point | 183°C (ASTM D93), 218°C (ASTM D92) |
| Auto-ignition Temperature | Not available |
| Water solubility (by weight): | 100% at 20 °C |
| pH | N/A |
| Boiling Point | > 200°C |
| Vapor Pressure | <0.001 kPa (0.1 mm Hg) at 20° C |
| Vapor Density | > 1 at 101 kPa (Air = 1) |
| Evaporation Rate | < 0.01 |

## SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical Stability: | Material is stable under normal conditions. |
| Hazardous Polymerization | Will not occur. |
| Conditions to Avoid: | Excessive heat. High energy sources of ignition. |
| Incompatible with: | Strong oxidizers. |
| Hazardous Decomposition Products: | Material does not decompose at ambient temperatures. |

## SECTION 11 - TOXICOLOGICAL INFORMATION

When administered to rats by stomach tube, a component in this mixture produced tumors of the forestomach. On the basis of this information, an IARC working group concluded that there is "limited evidence" for carcinogenicity of the component in laboratory animals. No case reports or epidemiological study of carcinogenicity to humans was available to the working group, thus no evaluation could be made of the carcinogenicity to humans.

**EXPOSURE LIMITS**

When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

## SECTION 12 - ECOLOGICAL INFORMATION

Closed Bottle BOD (5 Oxygen Consumption) Day 5 – 13.3%, Day 28 – 87.3%

## SECTION 13- DISPOSAL INFORMATION

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**
Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**REGULATORY DISPOSAL INFORMATION**
RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## SECTION 14 - TRANSPORTATION INFORMATION

**LAND (DOT)** : Not Regulated for Land Transport

**LAND (TDG)** : Not Regulated for Land Transport

**SEA (IMDG)** : Not Regulated for Sea Transport according to IMDG-Code

**AIR (IATA)** : Not Regulated for Air Transport

## SECTION 15 - REGULATORY INFORMATION

CERCLA; The following components of this product are specifically listed as hazardous substances in 40 CFR 302.4 and are present at the levels requiring reporting:
Acetaldehyde: <0.0005%
Ethylene Oxide: <0.0004%
1,4 Dioxane: <0.0004%
Formaldehyde: <3.4 ppm

TSCA: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.
PA Worker and Community RTK: This product is subject to the Work and Community Right-to-Know Act. The following components of this product are at levels which could require identification in the MSDS: Polyol (Trade secret) <20%)

MA RTK: The following components of this product appear on the Massachusetts Substances List and are present at levels which could require identification in the MSDS:
Acetaldehyde: <0.0005%
Ethylene Oxide: <0.0004%
1,4 Dioxane: <0.0004%
Formaldehyde: <3.4 ppm

CA Proposition 65: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm:
Acetaldehyde: <0.0005%
Ethylene Oxide: <0.0004%
1,4 Dioxane: <0.0004%
Formaldehyde: <3.4 ppm

## SECTION 16- ADDITIONAL INFORMATION